

Please replace the paragraph beginning on page 43, line 6, with the following amended paragraph:

OLIGO #	5' TO 3' SEQUENCE
188	TT ACC CCT GTG GCA AAA GCC GAA GTG CAG CTG GTG GAG TCT GG (SEQ ID NO:1)
944	TT ACC CCT GTG GCA AAA GCC CAG GTG CAG CTG GTG CAG TCT GG (SEQ ID NO:2)
948	TT ACC CCT GTG GCA AAA GCC CAG GTG CAG CTG GTG GAG TCT GG (SEQ ID NO:3)
952	GA TGG GCC CTT GGT GGA GGC (SEQ ID NO:4)

Please replace the paragraph beginning on page 43, line 19, with the following amended paragraph:

189	CT GCC CAA CCA GCC ATG GCC GAA ATT GTG CTC ACC CAG TCT CC (SEQ ID NO:5)
931	TC GCT GCC CAA CCA GCC ATG GCC GTC ATC TGG ATG ACC CAG TCT CC (SEQ ID NO:6)
932	TC GCT GCC CAA CCA GCC ATG GCC AAC ATC CAG ATG ACC CAG TCT CC (SEQ ID NO:7)
933	TC GCT GCC CAA CCA GCC ATG GCC GCC ATC CGG ATG ACC CAG TCT CC (SEQ ID NO:8)
934	TC GCT GCC CAA CCA GCC ATG GCC GCC ATC CAG TTG ACC CAG TCT CC (SEQ ID NO:9)
935	TC GCT GCC CAA CCA GCC ATG GCC GAA ATA GTG ATG ACG CAG TCT CC (SEQ ID NO:10)
936	TC GCT GCC CAA CCA GCC ATG GCC GAT GTT GTG ATG ACA CAG TCT CC (SEQ ID NO:11)
937	TC GCT GCC CAA CCA GCC ATG GCC GAA ATT GTG TTG ACG CAG TCT CC (SEQ ID NO:12)
955	TC GCT GCC CAA CCA GCC ATG GCC GAC ATC CAG ATG ATC CAG TCT CC (SEQ ID NO:13)
956	TC GCT GCC CAA CCA GCC ATG GCC GAT ATT GTG ATG ACC CAG ACT CC (SEQ ID NO:14)
973	CAG CAG GCA CAC AAC AGA GGC (SEQ ID NO:15)

Please replace the paragraph beginning on page 43, line 38, with the following amended paragraph:

945	TT ACC CCT GTG GCA AAA GCC GAG GTG CAG CTG TTG GAG TCT GG (SEQ ID NO:16)
946	TT ACC CCT GTG GCA AAA GCC GAG GTG CAG CTG GTG CAG TCT GG (SEQ ID NO:17)

B⁴ 947 TT ACC CCT GTG GCA AAA GCC CAG GTG CAG CTA CAG CAG TGG GG
(SEQ ID NO:18)

Please replace the paragraph beginning on page 44, line 38, with the following
amended paragraph:

953 GAC AGA TGG TGC AGC CAC AGT (SEQ ID NO:19) H E

Please replace the paragraph beginning on page 47, line 17, with the following
amended paragraph:

B⁵ 5' ATC TGG CAC ATC ATA TGG ATA AGT TTC GTG TAC AAA ATG CCA GAC CTA GAG
GAA TTT TAT TTC CAG CTT GGT CCC (SEQ ID NO:20)

Please replace the paragraph beginning on page 47, line 22, with the following
amended paragraph:

B⁶ 5' GTG ATG GTG ATG GTG ATG GAT CGG AGT ACC AGG TTA TCG AGC CCT CGA TAT
TGA GGA GAC GGT GAC TGA (SEQ ID NO:21)

Please replace the paragraph beginning on page 47, line 35, with the following
amended paragraph:

Primer 5

B⁷ 5' GCA ACT GTT GGG AAG GG (SEQ ID NO:22)

Please replace the paragraph beginning on page 47, line 38, with the following
amended paragraph:

Primer 197

B⁸ 5' TC GCT GCC CAA CCA GCC ATG (SEQ ID NO:23)

Please replace the paragraph beginning on page 48, line 8, with the following
amended paragraph:

B⁹ 5' PCR primer (869)- GGG ACC AAG CTG GAA ATA AAA CGG GCT GTG GCT GCA CCA TCT
GTC T (SEQ ID NO:24)

Please replace the paragraph beginning on page 48, line 11, with the following
amended paragraph:

B¹⁰ 3' PCR primer (870)- ATC TGG CAC ATC ATA TGG ATA AGA CTC TCC CCT GTT GAA GCT
CTT (SEQ ID NO:25)

Please replace the paragraph on page 48, line 14, with the following amended paragraph:

B¹¹ 5' PCR primer (867)- TCA GTC ACC GTC TCC TCA GCC TCC ACC AAG GGC CCA TC
(SEQ ID NO:26)

Please replace the paragraph on page 48, line 16, with the following amended paragraph:

B¹² 3' PCR primer (876)- GTG ATG GTG ATG GTG ATG AGA TTT GGG CTC TGC TTT CTT GTC C
(SEQ ID NO:27)

Please replace the paragraph on page 50, line 14, with the following amended paragraph:

B¹³ Primer 885
5' TAA GAG CGG TAA GAG TGC CAG (SEQ ID NO:27)

Please replace the paragraph beginning on page 64, line 6, with the following amended paragraph:

B¹⁴ The polyclonal IL8 antibody phage form both the 10⁹ and 10¹⁰ affinity cuts (see Example 13) were diluted 1/30 in 2 x YT and 1 µl used as template for PCR amplification of the antibody gene inserts with primers 197 (Example 5) and 970 (see below). PCR (3-100 µL reactions) was performed using a high-fidelity PCR system, Expand (Roche Molecular Biochemicals, Indianapolis, IN) to minimize errors incorporated into the DNA product. Each 100 µl reaction contained 100 pmol of 5' primer 197, 100 pmol of 3' primer 970, 0.7 units of Expand DNA polymerase, 10 µl 2 mM dNTPs, 10 µl 10 x Expand reaction buffer, 1 µl diluted phage stock as template, and water to 100 µl. The reaction was carried out in a Perkin-Elmer thermal cycler (Model 9600) using the following thermal profile: one cycle of denaturation at 94 °C (1 min); ten cycles of denaturation (15 sec, 94 °C), annealing (30 sec, 55 °C), elongation (60 sec, 72 °C); fifteen cycles of denaturation (15 sec, 94 °C), annealing (30 sec, 55 °C), elongation (80 sec plus 20 sec for each additional cycle, 72 °C); elongation (6 min, 72 °C); soak (4 °C, indefinitely). The PCR products were ethanol precipitated, pelleted and dried as described above. The DNA was dissolved in water and fractionated by agarose gel electrophoresis. Only full-length products were excised from the gel, purified, and resuspended in water as described earlier.

B¹⁴
Primer 970- 5' GT GAT AAA CTA CCG TA AAG CTT ATC GAT GAT AAG CTG
TCA A TTA GTG ATG GTG ATG GTG ATG AGA TTT G (SEQ ID NO:29)

Please replace the paragraph beginning on page 67, line 15, with the following amended paragraph:

B¹⁵
The decapeptide, YPYDVDPDYAS (SEQ ID NO:30), (Chiron Mimotopes Peptide Systems, San Diego, CA) was dissolved (0.3 g) in dry DMF (5.4 mL) in a round bottom flask under argon with moderate stirring. Imidazole (0.02 g) was added to the stirring solution. Separately, acetylthiopropionic acid (0.041 g) was dissolved in 0.55 mL of dry DMF in a round bottom flask with stirring and 0.056 g of 1,1'-carbonyldiimidazole (Aldrich Chemical Co., Milwaukee, WI) was added to the stirring solution. The flask was sealed under argon and stirred for at least 30 min at room temperature. This solution was added to the decapeptide solution and the reaction mixture was stirred for at least six hr at room temperature before the solvent was removed *in vacuo*. The residue in the flask was triturated twice using 10 mL of diethyl ether each time and the ether was decanted. Methylene chloride (20 mL) was added to the residue in the flask and the solid was scraped from the flask and filtered using a fine fritted Buchner funnel. The solid was washed with an additional 20 mL of methylene chloride and the Buchner funnel was dried under vacuum. In order to hydrolyze the derivative to generate a free thiol, it was dissolved in 70% DMF and 1 M potassium hydroxide was added to a final concentration of 0.2 M while mixing vigorously. The derivative solution was allowed to stand for 5 min at room temperature prior to neutralization of the solution by the addition of a solution containing 0.5 M potassium phosphate, 0.1 M borate, pH 7.0, to which concentrated hydrochloric acid has been added to a final concentration of 1 M. The thiol concentration of the hydrolyzed decapeptide derivative was determined by diluting 10 µL of the solution into 990 µL of a solution containing 0.25 mM 5,5'-dithiobis(2-nitrobenzoic acid) (DTNB, Aldrich Chemical Co., Milwaukee WI) and 0.2 M potassium borate, pH 8.0. The thiol concentration in mM units was equal to the A412(100/13.76).

Please replace the paragraph beginning on page 72, line 12, with the following amended paragraph:

- B¹⁶
- A- 5' (TCGCTGCCCAACCAGCCATGGCCAGTGCTAAAGAACTTAGATCTCAG)
(SEQ ID NO:31)
 - B- 5' (GTGATAAACTACCGCATTAAAGCTTATCGATGATAAGCTGTCAATTAGTGAT
GGTGATGGTGATGTGAATTCTCAGCCCTCTTCAA) (SEQ ID NO:32)
 - C- 5' (GCAACTCTCTACTGTTTCTCC) (SEQ ID NO:33)
 - D- 5' (GAGGATGACGATGAGCGC) (SEQ ID NO:34)

Please replace the paragraph on page 75, line 18, with the following amended paragraph:

B¹⁷ M1-1L (SEQ ID NO:35)

Please replace the paragraph on page 76, line 4, with the following amended paragraph:

B¹⁸ M1-3L (SEQ ID NO:37)

Please replace the paragraph on page 76, line 17, with the following amended paragraph:

B¹⁹ M1-4L (SEQ ID NO:39)

Please replace the paragraph on page 76, line 30, with the following amended paragraph:

B²⁰ M1-5L (SEQ ID NO:41)

Please replace the paragraph on page 76, line 43, with the following amended paragraph:

B²¹ M1-8L (SEQ ID NO:43)

Please replace the paragraph on page 76, line 56, with the following amended paragraph:

B²² M1-10L (SEQ ID NO:45)

Please replace the paragraph on page 77, line 8, with the following amended paragraph:

B²³ M1-21L (SEQ ID NO:47)

Please replace the paragraph on page 77, line 19, with the following amended paragraph:

B²⁴
M1-23L (SEQ ID NO:49)

Please replace the paragraph on page 77, line 34, with the following amended paragraph:

B²⁵
M1-25L (SEQ ID NO:51)

Please replace the paragraph on page 77, line 47, with the following amended paragraph:

B²⁶
M1-1H (SEQ ID NO:53)

Please replace the paragraph on page 77, line 60, with the following amended paragraph:

B²⁷
M1-3H (SEQ ID NO:55)

Please replace the paragraph on page 78, line 12, with the following amended paragraph:

B²⁸
M1-4H (SEQ ID NO:57)

Please replace the paragraph on page 78, line 25, with the following amended paragraph:

B²⁹
M1-5H (SEQ ID NO:59)

Please replace the paragraph on page 78, line 38, with the following amended paragraph:

B³⁰
M1-8H (SEQ ID NO:61)

Please replace the paragraph on page 78, line 51, with the following amended paragraph:

B³¹
M1-10H (SEQ ID NO:63)

Please replace the paragraph on page 79, line 4, with the following amended paragraph:

B³²
M1-21H (SEQ ID NO:65)

Please replace the paragraph on page 79, line 17, with the following amended paragraph:

B³³ M1-23H (SEQ ID NO:67)

Please replace the paragraph on page 79, line 30, with the following amended paragraph:

B³⁴ M1-25H (SEQ ID NO:69)

Please replace the paragraph on page 79, line 43, with the following amended paragraph:

B³⁵ M2-11L (SEQ ID NO:71)

Please replace the paragraph on page 79, line 56, with the following amended paragraph:

B³⁶ M2-12L (SEQ ID NO:73)

Please replace the paragraph on page 80, line 8, with the following amended paragraph:

B³⁷ M1-16L (SEQ ID NO:75)

Please replace the paragraph on page 80, line 21, with the following amended paragraph:

B³⁸ M2-18L (SEQ ID NO:77)

Please replace the paragraph on page 80, line 34, with the following amended paragraph:

B³⁹ M2-20L (SEQ ID NO:79)

Please replace the paragraph on page 80, line 47, with the following amended paragraph:

B⁴⁰ M2-31L (SEQ ID NO:81)

Please replace the paragraph on page 80, line 60, with the following amended paragraph:

B⁴¹ M2-32L (SEQ ID NO:83)

Please replace the paragraph on page 81, line 12, with the following amended paragraph:

B⁴²
M2-33L (SEQ ID NO:85)

Please replace the paragraph on page 81, line 25, with the following amended paragraph:

B⁴³
M2-34L (SEQ ID NO:87)

Please replace the paragraph on page 81, line 38, with the following amended paragraph:

B⁴⁴
M2-35L (SEQ ID NO:89)

Please replace the paragraph on page 81, line 51, with the following amended paragraph:

B⁴⁵
M2-11H (SEQ ID NO:91)

Please replace the paragraph on page 82, line 4, with the following amended paragraph:

B⁴⁶
M2-12H (SEQ ID NO:93)

Please replace the paragraph on page 82, line 17, with the following amended paragraph:

B⁴⁷
M2-16H (SEQ ID NO:95)

Please replace the paragraph on page 82, line 30, with the following amended paragraph:

B⁴⁸
M2-18H (SEQ ID NO:97)

Please replace the paragraph on page 82, line 43, with the following amended paragraph:

B⁴⁹
M2-20H (SEQ ID NO:99)

Please replace the paragraph on page 82, line 56, with the following amended paragraph:

B⁵⁰
M2-31H (SEQ ID NO:101)

Please replace the paragraph on page 83, line 8, with the following amended paragraph:

B51 M2-32H (SEQ ID NO:103)

Please replace the paragraph on page 83, line 22, with the following amended paragraph:

B52 M2-33H (SEQ ID NO:105)

Please replace the paragraph on page 83, line 35, with the following amended paragraph:

B53 M2-34H (SEQ ID NO:107)

Please replace the paragraph on page 83, line 48, with the following amended paragraph:

B54 M2-35H (SEQ ID NO:109)

Please replace the paragraph beginning on page 84, line 3, with the following amended paragraph:

B55 Translated amino acid sequences of sequenced antibodies. M1-H Heavy Chain Variable and CH1 Regions $10^{-9}M^{-1}$ Affinity Cut (SEQ ID NOS:64,54,66,68,70,56,58,60 and 62 respectively)

Please replace the paragraph beginning on page 84, line 61, with the following amended paragraph:

B56 M1-L Kappa Chain Variable and Constant Regions $10^{-9}M^{-1}$ Affinity Cut (SEQ ID NOS:46,36,48,50,52,38,40,42, and 44 respectively)

Please replace the paragraph beginning on page 85, line 56, with the following amended paragraph:

B57 M2-H Heavy Chain VH-CH1 Sequence $10^{-10}M^{-1}$ Affinity Cut (SEQ ID NOS:92, 94, 96, 98, 100, 102, 104, 106, 108, and 110 respectively)

Please replace the paragraph beginning on page 86, line 57, with the following amended paragraph:

B58 M2-L Kappa Chain VKCK $10^{-10}M^{-1}$ Affinity Cut (Thu Sep 23) (SEQ ID NOS:72, 74, 76, 78, 80, 82, 84, 86, 88, and 90 respectively).